SEQUENCE LISTING

<110> Yeaman, Michael R.
Shen, Alexander J.

<120> ANTIMICROBIAL PEPTIDES AND DERIVED METAPEPTIDES

<130> 660081.415C1

<140> US 09/648,816
<141> 2000-08-25

<150> US 09/622,561
<151> 2000-08-18

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20 25 30
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Leu Gly

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Lys Phe Lys His Tyr Phe Phe Trp Lys Tyr Lys
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Lys Gly Tyr Phe Tyr Phe Leu Phe Lys Phe Lys
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1 5 10

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Leu Ala Gly

<210> 23
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Lys Ile Leu Lys
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<210> 24
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1 5 10 15
Leu Ile Ala Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu Gln
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Ala Ala Leu Tyr Lys Lys Lys Ile Ile Lys Lys Leu Leu Glu Ser

35 40 45

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Ala Ala Leu
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Arg Leu Gly

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Leu Gly

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Leu Gly Cys

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<210> 42
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Leu Gly

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<210> 46
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Ala Leu

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<400> 48
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1 5 10 15
Leu Tyr Lys Lys Lys
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<210> 49
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Leu Tyr Arg Arg Arg
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Leu Tyr Lys Lys Lys

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Leu Tyr Lys Lys Lys
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Leu Tyr Glu Glu Glu
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1 5 10 15
Leu Phe Lys Lys Lys
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proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

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1 5 10 15
Leu Trp Lys Lys Lys
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proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

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Asn Lys Lys Thr Ala
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Leu Tyr Arg Arg
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<400> 62
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1 5 10 15
Leu Tyr Lys Lys
20

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<400> 68
Ala Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Gly Leu Gln Ala Ala
1 5 10 15
Leu Tyr Lys Lys
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Leu Phe Lys Lys

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<211> 20
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<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 70
Ala Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu Gln Ala Ala
1 5 10 15
Leu Trp Lys Lys
20

<210> 71
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 71
Lys Lys Tyr Leu Ala Ala Gln Leu Asp Leu Cys Leu Lys Arg Gly Asn
1 5 10 15
Lys Lys Thr Ala
20

<210> 72
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 72
Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu
1 5 10 15
Tyr Lys Lys Lys
20

<210> 73
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 73
Thr Arg Arg Asn Gly Arg Arg Leu Cys Leu Asp Leu Gln Ala Ala Leu
1 5 10 15
Tyr Arg Arg Arg
20

<210> 74
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 74
Thr Lys Lys Asn Gly Lys Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu
1 5 10 15
Tyr Lys Lys Lys
20

<210> 75
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 75
Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Glu Leu Gln Ala Ala Leu
1 5 10 15
Tyr Lys Lys Lys
20

<210> 76
<211> 20
<212> PRT

<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 76
Thr Glu Glu Asn Gly Arg Glu Leu Cys Leu Asp Leu Gln Ala Ala Leu
1 5 10 15
Tyr Glu Glu Glu
20

<210> 77
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 77
Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Lys Leu Gln Ala Ala Leu
1 5 10 15
Tyr Lys Lys Lys
20

<210> 78
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 78
Thr Lys Lys Asn Gly Glu Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu
1 5 10 15
Tyr Lys Lys Lys
20

<210> 79
<211> 20
<212> PRT
<213> Artificial Sequence

<220>

<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 79
Thr Lys Lys Asn Gly Gly Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu
1 5 10 15
Tyr Lys Lys Lys
20

<210> 80
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 80
Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Gly Leu Gln Ala Ala Leu
1 5 10 15
Tyr Lys Lys Lys
20

<210> 81
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 81
Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu
1 5 10 15
Phe Lys Lys Lys
20

<210> 82
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 82
Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu
1 5 10 15
Trp Lys Lys Lys
20

<210> 83
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 83
Lys Lys Tyr Leu Ala Ala Gln Leu Asp Leu Cys Leu Lys Arg Gly Asn
1 5 10 15
Lys Lys Thr Ala
20

<210> 84
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 84
Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu
1 5 10 15
Tyr Lys Lys

<210> 85
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 85

Thr Arg Arg Asn Gly Arg Arg Leu Cys Leu Asp Leu Gln Ala Ala Leu
1 5 10 15
Tyr Arg Arg

<210> 86
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 86
Thr Lys Lys Asn Gly Lys Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu
1 5 10 15
Tyr Lys Lys

<210> 87
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 87
Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Glu Leu Gln Ala Ala Leu
1 5 10 15
Tyr Lys Lys

<210> 88
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 88
Thr Glu Glu Asn Gly Arg Glu Leu Cys Leu Asp Leu Gln Ala Ala Leu
1 5 10 15
Tyr Glu Glu

<210> 89
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 89
Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Lys Leu Gln Ala Ala Leu
1 5 10 15
Tyr Lys Lys

<210> 90
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 90
Thr Lys Lys Asn Gly Glu Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu
1 5 10 15
Tyr Lys Lys

<210> 91
<211> 19
<212> PRT
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<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 91
Thr Lys Lys Asn Gly Gly Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu
1 5 10 15
Tyr Lys Lys

<210> 92
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 92
Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Gly Leu Gln Ala Ala Leu
1 5 10 15
Tyr Lys Lys

<210> 93
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 93
Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu
1 5 10 15
Phe Lys Lys

<210> 94
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 94
Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu
1 5 10 15
Trp Lys Lys

<210> 95
<211> 19
<212> PRT

<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 95
Lys Lys Tyr Leu Ala Ala Gln Leu Asp Leu Cys Leu Lys Arg Gly Asn
1 5 10 15
Lys Lys Thr

<210> 96
<211> 22
<212> PRT
<213> Oryctolagus cuniculus

<400> 96
Ser Asp Asp Pro Lys Glu Ser Glu Gly Asp Leu His Cys Val Cys Val
1 5 10 15
Lys Thr Thr Ser Leu Val
20

<210> 97
<211> 37
<212> PRT
<213> Oryctolagus cuniculus

<400> 97
Ser Asp Asp Pro Lys Glu Ser Glu Gly Asp Leu His Cys Val Cys Val
1 5 10 15
Lys Thr Thr Ser Leu Val Arg Pro Arg His Ile Thr Asn Leu Glu Leu
20 25 30
Ile Lys Ala Gly Gly
35

<210> 98
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 98
Ser Asp Asp Pro Lys Glu Ser Glu Gly Asp Leu His Cys Val Cys Val
1 5 10 15
Lys Thr Thr Ser Lys Val
20

<210> 99
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 99
Ser Asp Asp Pro Lys Glu Ser Glu Gly Glu Leu Arg Cys Val Cys Val
1 5 10 15
Lys Thr Thr Ser Leu Val
20

<210> 100
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 100
Ser Asp Asp Pro Lys Glu Ser Glu Gly Glu Leu Arg Cys Val Cys Val
1 5 10 15
Lys Thr Thr Ser Lys Val
20

<210> 101
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 101
Ser Asp Asp Pro Lys Glu Ser Glu Gly Asp Leu His Cys Cys Val Lys
1 5 10 15
Thr Thr Ser Lys Val
20

<210> 102

<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 102
Ser Asp Asp Pro Lys Glu Ser Glu Gly Glu Leu Arg Cys Cys Val Lys
1 5 10 15
Thr Thr Ser Leu Val
20

<210> 103
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 103
Ser Asp Asp Pro Lys Glu Ser Glu Gly Glu Leu Arg Cys Cys Val Lys
1 5 10 15
Thr Thr Ser Lys Val
20

<210> 104
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 104
Ala Leu Tyr Lys Lys Phe Lys Lys Lys Leu Leu Lys Ser Leu Lys Arg
1 5 10 15
Leu Gly Ser Asp Asp Pro Lys Glu Ser Glu Gly Asp Leu His Cys Val
20 25 30
Cys Val Lys Thr Thr Ser Leu Val
35 40

<210> 105
<211> 35

<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 105
Ala Leu Tyr Lys Arg Leu Phe Lys Lys Leu Lys Lys Phe Ser Asp Asp
1 5 10 15
Pro Lys Glu Ser Glu Gly Asp Leu His Cys Val Cys Val Lys Thr Thr
20 25 30
Ser Leu Val
35

<210> 106
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 106
Ala Leu Thr Lys Lys Phe Lys Lys Lys Leu Leu Lys Ser Leu Lys Arg
1 5 10 15
Leu Gly Ser Asp Asp Pro Lys Glu Ser Glu Gly Glu Leu Arg Cys Val
20 25 30
Cys Val Lys Thr Thr Ser Lys Val
35 40

<210> 107
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 107
Glu Trp Val Gln Lys Tyr Val Ser Asn Leu Glu Leu Ser Ala Trp Lys
1 5 10 15
Lys Ile Leu Lys
20

<210> 108

<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 108
Ser Trp Val Gln Glu Tyr Val Tyr Asn Leu Glu Leu
1 5 10

<210> 109
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 109
Ala Asn Ser Gly Glu Gly Asn Phe Leu Ala Glu Gly Gly Gly Val Arg
1 5 10 15

<210> 110
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 110
Ala Asn Ser Gly Glu Gly Asn Phe Leu Ala Glu Gly Gly Gly Val Arg
1 5 10 15
Lys Leu Ile Lys
20

<210> 111
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobiocidal peptide designed in part upon microbiocidal domains from platelet microbial

proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 111
Lys Phe Asn Lys Ser Lys Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn
 1   5   10   15
Pro Leu